Esay animal Deale Daniel M Heart of Minterely paper Mart 20 1016



Unimal Heat In entering upon the investigation ya subject which embling one of the most important lequisites belonging to animated natare I perhaps might be supposed that agull and cialisate wine would be taken if it, but wishe marrow limits to which this distribution is circamseribed with not admit to a lengthy discusion, I will content myself with effering a few demarks on the cause which appears the most probable in producing animal heat. It is the influence in his principle agent acting on our systems which gives us oddately imports vigous, and unorales the system when exhausted by whatever cause. In a wood it ach



as the main spring to our bodies. of shall Who proceeding to the immediate insistigation of the subject, lake a limited ring of that pulmonary circulation, and the appearance of the bloods lin the lange me line in a verying and wefat purpose, has furnished all animaly with lungs, of comething equivalent for respiring almospherical airs to anisings some chance for pour poses directly to be mentioned. The blood by the central tion of the heart is propelled forwards into the pulmonary arting and through the white out. stance of the lange with having andugone the newpary changes it is again taken up by the pulmonary veing, and carried back tothe heart, and from thence to all parts of the body. The blood when returned to the heart by the reis no from the different parts of the body, exhibits a dark and colour, inclining to people. This appear ance of the blood is said to depend upon an according to carbon which it contains. In its popular

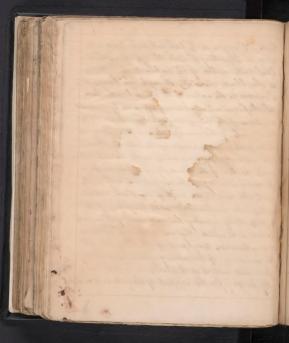


Through the lung, it is changed from the me dena to a bright saile. Who advantion of the celour of the lesser in the lang, ment unquestion ally aim from a should action to the hold today place as consequence of the influence of the atmospherical air on the constituent frinciples, which has been a painmatally and satisfactority proud to be the cast. This better a chemical proup foing on at over inspiration, appears to be one of the principles and many by which the animal is supplied with health.

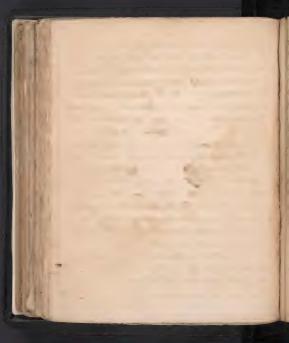
Since the important, wincoury of the phrame was it had and competition, to defend upon the agency to the atmosphere of the the atmosphere of the totation of the close of the Morae in the lange has been as cribed to the inflance which this perorted agent has end. This opinion is now very groundly received, and it is the action of the tygen on one explang, which, in my specinion, a believe to be the sele cause of animal



heat. Oxygens acts both internally and internally in Imparting heat to the system. I shall libet take notes of its internal operations as the blove circutates through the lungs, it is expresed to the action of the air no breake, from which from which it is only separated by the mint membrano of the lungs. Thebugh there it alteraly lot the elements of the atmosphere, but principally the vilat part or ox par, sufficient to saturale, it, whill The remaining portion unity with the superabun. dant carton of the blood flying off in the form up carbonic acid gas the oxygen not only unites with the constituents parts of the blook, tal also on ting into combination with the filing of the wifelly thereby imparting heat and exciting them into action, with which they are condadily as fast as it is exhausted, Buy part if the body through the mexicum of kinedatory system is constantly furnished with it, as it belong dimenished in quan tity perspary for the support of the system. It is style



ringe horis is nothing to be and in the second stand some is a supplied with hist. The weeky to sice aids in furnishing head to the s , on . 12 is the we is supposed to outer into comin in , is it maller, we may they only conclude. it is if you and lated into his you are . I, meany inconsistable. L' , me , i . I ligation the crown continued by the 4 set at liberty roles there as a stitulisat to in ... Vin of the believe Signe later up by them .. ed toto the ind circulations if he ... me sail is bestoned in the fithous in fin 1 . h. west intertines, thereby o with no schile action calmed & see suring in mor be track in istan , j. The rolling in replaced of the one is reternal surger of the long contilling . . may great segue to se ship the some viere



But the wire is walle to the fire the in a constituence of soil on the if you to an in, this is afteroardy taken to color my distribute, and comment is it ... wow. It appears that the same wind p a seer Leter place in this instance, as on the ting , Soul if the oxagen unity with the consentent most Alies yet in the form of car rinder unity with the blood and is . · The airculation of culanions absorbs 1. the I must who he admitted this " Ing almosphere is to a men I have selected it are site hat Bring to the web. 1 ... in he will create por the ind in aich to will for we the paty, in a wind good i



instance, are facilly exhibit for some time in grasping some substance with thand, thin se citabilly becomes exhausted, and no experience such balique that the exertion cannot becomtinued During a short period of wet, Thesome movating principles restore the excitable structure, and the action again is remed, for the renovation thus expeliences, after every ocenand the collement, is entirely owing to the rene vating powers of crygen & sympathy. Ocuren three combined with the bloods is the cite cause of principle insunvation. It is the sino qua non of critatitity and the racinal supporter to The whole excitable structure - sympathy is chilly useful in extending the action baloutas. hat to set at liberty the later exegen contains ned in other party and therety repairing the in-Juries to its subordinate parts, for instance, when the excelability of any organ of and or muscle is oxhausted by stimulations it is sympathy with



the whole eyeline which is speadly recting it tell primation perfection, whilst that churcus in its whole extent is racioally dependent

on the application of engage.

By the influence of cympatry, the oscilatility of should nate party, may be supported in it or handlern repaired, but the principle of the game in the blood is the from which it reduced by this principle, the rubble excellence of this principle, the rubble excellence is submitted.

let in a moment aim we care to love who expended to every partier of the england in all the experience of the schools of the should be seen of production and in production of the modern of the shows attention in it, is not not underloved, but alone attention that is committed youth on the file. It consider that to chamically combines with the file. It can start have been sinically combines with the file. It can start have been sinically complience with the file. It can start have been suited to a produce the continues of the language considering and the continues of the language coinciders and the continues of the language continues of the lan

